

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Stein Steel Mill Services, Inc.  
Attn: James E. Conlon  
1929 East Royalton Road  
Broadview Heights, Ohio 44147

Application No.: 03050009

I.D. No.: 119813AAD

Applicant's Designation: LANCE PIPE

Date Received: May 5, 2003

Subject: Oxygen Lance

Date Issued:

Location: 20th and Edwards Road, Granite City

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of three oxygen lance pipe operation as described in the above referenced application. This Permit is subject to standard conditions attached hereto and the following special conditions:

1. Description

The oxygen lance pipe operation cuts up ferrous scrap material of varying sizes.

2. List of Emission Units and Pollution Control Equipment

Emission Unit	Description
Oxygen Lance Operation (3 Additional Lance Pipes)	Cuts Scrap Ferrous Metals

3. Applicability Provisions and Applicable Regulations

- a. An "affected oxygen lance operation" for the purpose of these unit specific conditions is each piece of equipment as described in the permit application.
- b. The affected oxygen lance operation is subject to 35 IAC 212.321(a), which provides that no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321, [35 IAC 212.321(a)].

- i. The emissions of particulate matter into the atmosphere in any one-hour period from the affected oxygen lance operation shall not exceed the allowable emission rates specified in the following equation

$$E = A (P)^B$$

Where:

P = Process weight rate

E = Allowable emission rate

1. For process weight rates up to 450 T/hr:

English

P	T/hr
E	lbs/hr
A	2.54
B	0.534

2. For process weight rates in excess of 450 T/hr:

English

P	T/hr
E	lbs/hr
A	24.8
B	0.16

Where:

P = Process weight rate in tons per hour, and

E = Allowable emission rate in pounds per hour.

[35 IAC 212.321]

4. Non-Applicability of Regulations of Concern

None

5. Operational and Production Limits and Work Practices

- a. The oxygen lance operation shall not be operated more than 2080 hours per year on a rolling 12-month basis.
- b. Large scrap steel throughput to the oxygen lance operation shall not exceed 64,000 tons/year.
- c. All material processed by the oxygen lance operation shall be wet prior to processing.

6. Emission Limitations

- a. Emissions of PM<sub>10</sub> from the oxygen lance operation shall not exceed the following limits:

PM <sub>10</sub> Emissions		
(Lb/Hr)	(T/Mo)	(T/Yr)
13.76	1.43	14.29

The above limitations are being established pursuant to the information in the permit application.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 months total).

7. Testing Requirements

N/A

8. Monitoring Requirements

N/A

9. Recordkeeping Requirements

The Permittee shall maintain records of the following items to demonstrate compliance with Conditions 5 and 6, of this permit, pursuant to Section 39.5(7)(b) of the Act:

- a. Operating hours per year for the oxygen lance operation.
- b. PM<sub>10</sub> emissions (lb/hr, tons/month and tons/year).

10. Reporting Requirements

N/A

11. Operational Flexibility/Anticipated Operating Scenarios

N/A

12. Compliance Procedures

- a. Emissions of PM<sub>10</sub> from the oxygen lance operation shall be based on the following:

$$E = A \times EF \times (1 - ER/100) \text{ Lb/Ton}$$

Where:

E = 26 g/min

A = 2,080 hours/year

EF = Emission factor

ER = Overall emission reduction efficiency, %

13. The Permittee is allowed to operate the affected oxygen lance operation under this construction permit until final action is taken on the sources CAAPP permit.

If you have any questions on this, please call Kevin Smith at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

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cc: Region 3